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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/552,117	04/19/2000	Bogdan M. Duduman	87552.070100/SE-1486IP.A	3110
34206	7590	03/04/2005	EXAMINER	
FOGG AND ASSOCIATES, LLC P.O. BOX 581339 MINNEAPOLIS, MN 55458-1339			DESTA, ELIAS	
			ART UNIT	PAPER NUMBER
			2857	

DATE MAILED: 03/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

H.A

# Supplemental Notice of Allowability

Application No.

09/552,117

Examiner

Elias Desta

Applicant(s)

DUDUMAN, BOGDAN M.

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## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on May 24, 2004.
2. ☒ The allowed claim(s) is/are 1-25.
3. ☒ The drawings filed on April 9, 2000 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

## Detailed Action

### Amendment

1. The Examiner accepts the amendment filed on May 24, 2004 to correct minor typographical error in claims 15 and 17.

### Allowance

2. The following is an examiner's statement of reasons for allowance:

In reference to claims 1, 6, 11, 16 and 21: National LM2637 datasheet teaches an integrated circuit for monitoring and controlling multiple power outputs from a power supply (ATX not shown) that generates a primary power voltage ( $V_{CC}$ ), and one more secondary power voltage ( $V_{DD}$ ) derived from the primary power voltage (see National LM2637 Fig. 2, and page 8-9 application information). National LM2637 has an input means for receiving the primary and secondary power voltages from the power supply (see Pin Description in page 8). The integrated circuit has a means for controlling the primary and secondary power voltages to generate controlled voltage power outputs (see National LM2637 page 8, pin 16-20, and overview first paragraph).

In page 2 of National LM2637, the integrated circuit consists of threshold variables ( $V_{CC-TH1}$  and  $V_{CC-TH2}$ ) with corresponding limit values for the

primary power source. The threshold variables and the limiting values constitute a means for sensing when the primary power voltage reaches or exceeds a threshold reference level. Further, the National LM2637 also has a means for delaying connection of the primary and secondary power voltages to the controlled voltage power outputs for selected delay time (see page 8, theory of operation, start up, first paragraph).

However, unlike the claimed invention, the soft start in National LM2637 ramps up until the error amplifier reaches a predetermined cycle, then the soft start session ends where the output level of the amplifier is released and allowed to go to a value that is determined by the feedback loop.

Where as, the claimed invention includes all the features noted above and provides a means to initiate the soft start after the delay has occurred. Further, the claimed invention includes a means delaying connection of the primary and secondary power voltages to the controlled voltage power outputs for selected delay time after the first primary voltage reaches the reference threshold level.

Citation of pertinent prior art:

- Kelly (IEEE Article, 'A Soft Starting AC Voltage Regulator') teaches a method of detecting shut of voltage and brings the system to a desirable full operation voltage level.

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The remaining claims are dependent upon claims 1, 6, 11, 16 and 21 and contain further limitations.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elias Desta whose telephone number is (571)-272-2214. The examiner can normally be reached on M-Thu (8:30-7:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc S. Hoff can be reached on (571)-272-2216. The fax phone numbers for the organization where this application or proceeding is assigned are (703)-872-9306 for regular communications and After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571)-272-1750.

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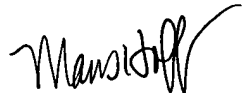
Elias Desta

Examiner

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-ed

February 24, 2005

  
MARC S. HOFF  
SUPERVISOR, EXAMINER  
FEB 24 2005 CENTER 2800